

数学与系统科学研究院

计算数学所短期课程

报告人: Prof. Dr. Anatoly Neyshtadt

*(Space Research Institute of Russian Academy of Sciences, Russia and
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报告题目:

**Averaging of perturbations in
dynamical systems**

邀请人: 唐贻发 研究员

报告时间:

- I. 2015 年 4 月 1 日 (周三) 上午 10:00-11:30**
- II. 2015 年 4 月 2 日 (周四) 上午 10:00-11:30**
- III. 2015 年 4 月 8 日 (周三) 上午 10:00-11:30**
- IV. 2015 年 4 月 9 日 (周四) 上午 10:00-11:30**
- V. 2015 年 4 月 15 日 (周三) 上午 10:00-11:30**
- VI. 2015 年 4 月 16 日 (周四) 上午 10:00-11:30**

**报告地点: 数学院南楼七层 702
会议室**

Abstract:

The course of lectures is devoted to dynamical systems that differ from integrable systems by small perturbations. Many problems in mechanics and physics lead to such systems. Asymptotical methods, that are used for study of such systems, are grouped around the idea of averaging of perturbations and dividing the dynamics into slow drift and fast oscillations. In the course of lectures, some of these methods, the theorems that justify them, and some applications of these methods will be considered.

Short Biography:

Anatoly Neyshtadt is Leading Research Fellow at Space Research Institute of Russian Academy of Sciences, also Professor of Applied Mathematics in Loughborough University (UK). He received his Ph.D. in Mathematics, Moscow State University in 1976 and Doctor of Sciences (Mathematics), Moscow State University in 1990. His research interests include Applied dynamical systems, perturbation theory, and averaging method. He has published one book and over 100 journal papers in these directions. He was an invited speaker at International Congress of Mathematicians (Kyoto, 1990) and International Congress on Theoretical and Applied Mechanics (Warsaw, 2004). He received Lyapunov Prize of Russian Academy of Sciences (joint with D.V. Anosov, 2001) and Russian State Fellowships for Distinguished Scientists of Russia (1998-2003). He served as co-Editor-in-Chief for “Nonlinearity” during 2005-2014. Currently, he serves as Fellow of the Institute of Physics, Member of Russian National Committee on Theoretical and Applied Mechanics, Member of Advisory Committee of Russian Foundation of Fundamental Research, Editor for “Chaos, An Interdisciplinary Journal of Nonlinear Science” and Member of Editorial Board for “Regular and Chaotic Dynamics”.

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